RIPSPEED

DVD/VCD/CD/MP3/USB/SD/MMC PLAYER

WITH FM/MW TUNER

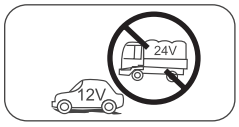
Operation Instructions

DVD-732B

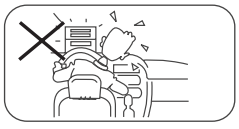
Safety Precautions

Thank you for purchasing this product. Please read through these operating instructions so you will know how to operate your model properly. After you have finished reading the instructions, keep this manual in a safe place for future reference.

Only connect the unit to a 12-volt power supply with negative grounding.



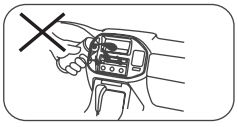
Never install this unit where the operation & condition for safety driving is restrained.



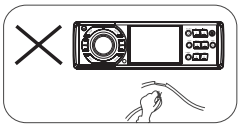
Never use the video display function in the front when driving to prevent the violation of laws & regulations and also to reduce the risk of traffic accident except using for rear view video camera.

To ensure safe driving, please adjust the volume to a safe & comfort level in case of emergency situations.

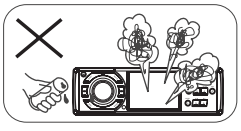
Never expose this unit, amplifier, and speakers to moisture or water for preventing electric sparks or fires.



Please don't change the fuse on the power cord without professional guidance, using improper fuse may cause damage to this unit or even cause fire.



Please power off this unit at once and send it back to the after-sales service center or the dealer/distributor you purchased from if one of the following symptoms is found:



(a). No audio output;
(b). No image output;
(c). Water or other obstacle enters the unit;
(d). Smoking;
(e). Peculiar smell.

To provide a clear demonstration and an alternative for easy understanding of the operation of this unit, graphic illustration was used. However, this illustration is not necessary printed as the actual image found on the unit.

Safety Information

Caution

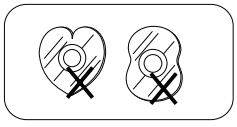
This product is a CLASS 1 LASER PRODUCT. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. Do not open covers and do not repair yourself. Refer servicing to qualified personnel.

Two Laser Products

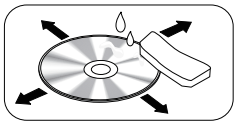
Wave length: CD: 780nm DVD: 650nm
Laser power: No hazardous radiation is emitted with safety protection.
To reduce the risk of fire electric shock, and annoying interference, use only the included components.

Caution of Disc Using

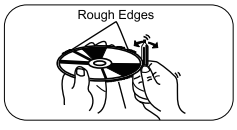
1. Never insert a 3-inch (8cm) CD contained in the adapter or an irregularly shaped CD. The unit may not be able to eject it, resulting in a malfunction.



2. Disc Cleaning. Use a dry, soft cloth to wipe the disc from center to edge, only neutral detergent can be used.



3. When playing a new disc. New disc may have some rough spots around the inner and outer edges. If such a disc is used, remove these rough spots with a pencil or ball-point pen, etc.



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Features

DVD-R/RW Compatibility

It is possible to playback DVD-R/RW discs recorded with the video format and Video Recording format.

Video CDs Featuring PBC

Compatibility

It is possible to playback Video CDs featuring PBC (playback control).

WMA and MP3 Compatibility

It is possible to playback WMA and MP3 files.

About WMA

The unit can playback WMA data.
Windows Media and the Windows logo are trade marks or registered trademarks of Microsoft Corporation in the United States and/or other countries.
This unit may not operate correctly depending on the application used to encode WMA files.

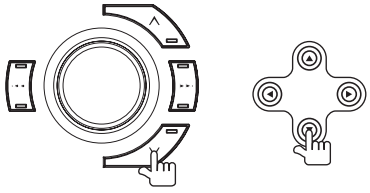
About MP3

Supply of this product only conveys a license for private, non-commercial use and does not convey a license nor imply any right to use this product in any commercial (i.e.revenue-generating) realtime broadcasting (terrestrial, satellite, cable and/or any other media), broad-casting/streaming via internet, intranets and/or other networks or in other electronic content distribution systems, such as pay-audio or audio-on-dem and applications. An independent license for such use is required. For details, please visit http://www.mp3licensing.com.

Button Operation Explanations

Some frequent operations

1) Move cursor

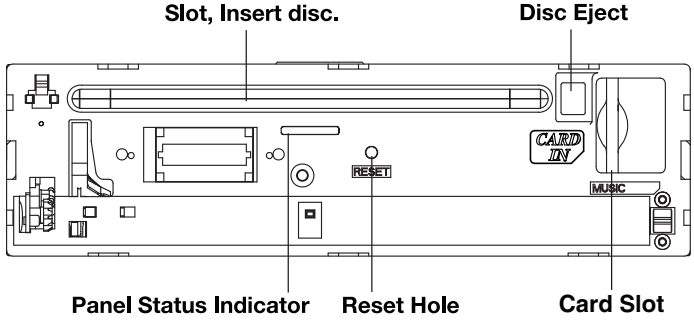


Note:

In Setting mode, the **VOL** knob has the same function as the ▲ / ▼ button to select setting items.

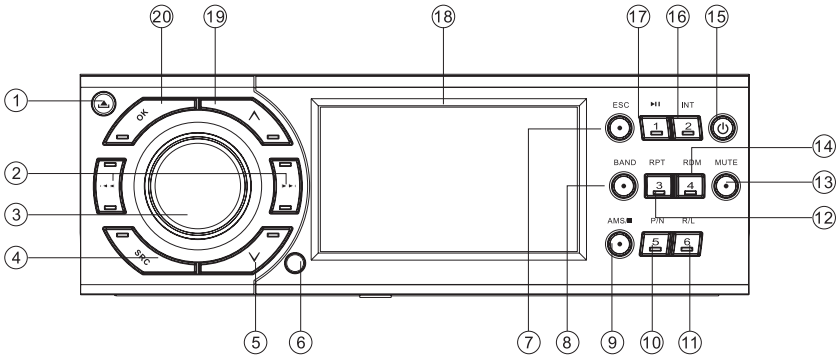
2) Confirm

Press the ⏏ button to open the panel.



Panel Controls

Power on/off: Press ⏻ to turn on/off the unit.



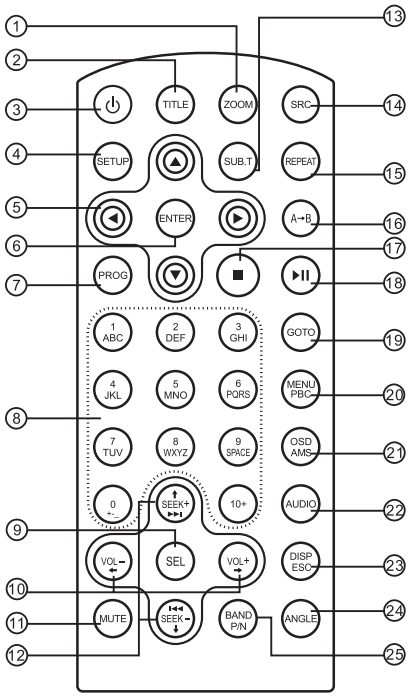
1. Panel open
2. - Press to search next or previous station manually, and each press to seek step by step (in Tuner mode).
   - Press and hold to search next or previous station automatically (in Tuner mode).
   - Press to search next or previous track or chapter (in CD, MP3/WMA, and DVD video mode).
   - Press and hold to fast forward or fast backward by 2, 4, 8, 20 step (in CD, MP3/WMA and DVD video mode).
   - Press to navigate left/right among option items
3. - Rotate the knob to adjust volume level.
   - Press to select EQ/BAS/MID/TRE/BAL/FAD/BRI/CON/SAT, and rotate the knob to adjust level.
   - Press and hold for more than 2 seconds to enter setting menu.
4. - Short press to switch playing mode:
   • Radio
   • Disc (when disc inserted)
   • USB (when USB inserted)
   • SD (when SD/MMC inserted)
   • AV1 (rear audio & video input. External peripheral devices with RCA audio and video outputs can be connected with the unit.)
   - Long press to return to main source menu when in any mode, then use navigate button to select the desired mode, and press **OK** to confirm.
5. - Press to navigate down among option items.
   - Play the next preset radio station.
6. Remote sensor
7. Return to previous menu
8. - Radio band switch: FM1-FM2-FM3-MW1-MW2
   - RDS program type (press and hold more than 2 seconds, in Radio mode)
9. - Radio auto preset/Radio preset scan
   - Stop during track playback
10 Video system PAL/NTSC/AUTO
11. - DVD audio channel
    - VCD audio channel L/R/ST
12. Track repeat play
13. Mute
14. Track random play
15. Power on/off
16. Intro play
17. Play/Pause

①-⑥ Radio Preset: Press to listen to a preset station, and hold for more than 2 seconds to store station.

18. 3 inch TFT display
19. - Press to navigate up among option item.
    - Play the previous preset radio station.
20. - Confirm operation
    - Stop auto seeking

Remote Controls

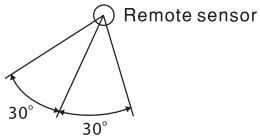
Press ⏻ to turn on/off the unit.



1. Zoom (DVD/VCD only)
2. Title (DVD only)
3. Power on/off
4. Setup
5. Menu cursor
6. Enter
7. Program
8. Digit area
9. Select Audio/Video Setting, then rotate the knob to adjust level.
10. Volume
11. Mute
12. - Radio tune
    - Track skip/seek
13. Subtitle (DVD only)
14. Source switch
15. Repeat
16. Repeat A-B
17. Stop/Return
18. Play/Pause
19. Goto search
20. - DVD menu
    - PBC (for VCD 2.0 or up)
21. - OSD: On screen display
    - AMS: Search and store stations automatically
22. - DVD audio
    - VCD audio L/R/ST
23. - DISP: Display time/clock (Video mode)
    - ESC: Return to previous menu
24. Angle (DVD only)
25. - Video system PAL/NTSC/AUTO
    - Radio band (in Radio mode)

Remote Control Operating Range

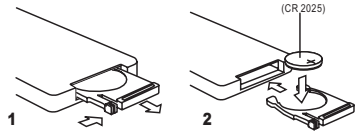
The remote control can operate within a distance of 3~5m.



Replacing the lithium battery

When the range of operation of the card remote control becomes short or no function, replace the lithium battery with a new one. Make sure the battery polarity replacement is correct.

1. Pull out the battery holder while pressing the stopper.
2. Insert the button-type lithium battery with the (+) mark facing upward. Insert the battery holder into the remote control.



Warning

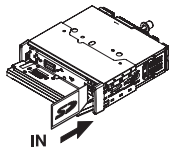
- Store the battery where children cannot reach. If a child accidentally swallows the battery, consult a doctor immediately.
- Do not recharge, short, disassemble or heat the battery or dispose it in a fire.
- Do not leave the battery with other metallic materials. Otherwise, the battery may start to give off heat, crack or catch fire.
- When throwing away or saving the battery, wrap it in tape and insulate.

USB/SD/MMC/MP3 Playback

1. Load SD/MMC Card

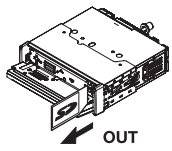
Insert the SD/MMC card into the slot, with the front side at right.

The unit will play the music automatically and the LCD will show CARD.



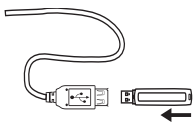
2. Take out SD/MMC Card

Press **SRC** button and switch to non CARD mode, slightly press SD/MMC card, take out the card when it pops out.



3. Load USB Equipment

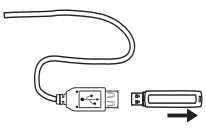
Open the rubber cap, insert the USB into the connector and the unit will play the music in the USB storer automatically, and the LCD will show USB.



4. Take out USB Equipment

Press **SRC** button and switch to non USB mode, then take off the USB stick, close the rubber cap.

USB/SD/MMC Notes



USB functions (flash memory type) MP3 music play

1. SD/MMC card support
2. USB flash memory 2 in 1 (SD/MMC) support
3. FAT 12/FAT 16FAT 32 is possible
   - FAT 12/16 (dir: 200 support, file: 500 support)
   - FAT 32 (dir: 200 support, file: 500 support)
4. File name: 32 byte/dir name: 32 byte /tag name: 32 byte
5. Tag (id3 tag ver 2.0)
   - Title/artist/album: 32 byte support
6. Multi card reader not support
7. USB 1.1 support
   USB 2.0 support
   (it can not support USB 2.0 speed. Just, get the same speed with USB 1.1)

Note:

Not all kinds of USB devices are compatible with the unit.

Basic Operations

Turn on/off the Power

1. Press ⏻ to turn on the unit.
   The unit goes back to the last status after power on.
2. Press ⏻ again to power off.

Mute

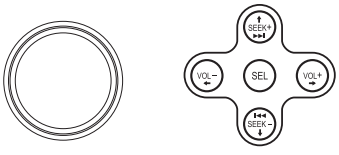
Press the **MUTE** button to cut the sound.

Note:

- Doing the operation above again or adjusting volume will release muting.
- Mute icon appears on the TFT during muting.

Adjust the Volume

Rotate the knob on the panel or press VOL +/- on the remote control to increase or decrease the volume.
The adjustable range of volume is 0 to 39.



Playing Source Selection

Method 1

Short press the **SRC** button on the panel or remote control to cycle through all the available sources: Radio, Disc (when disc inserted), USB (when USB inserted), SD (when SD/MMC inserted), AV1 (rear audio & video input. External peripheral devices with RCA audio and video outputs can be connected with the unit.)

Method 2

In any mode, long press the **SRC** button on the panel or remote control to enter main source menu, then use navigate button to select the desired mode, and press **OK** to confirm.

Note:

- When some devices are not ready, they cannot be selected.
- You should stop switching when the playing source you desired has been selected and wait for some seconds, the unit will auto enter the playing source mode you have selected.

When Parking Brake Applied

1. If 'PRK SW' cable is connected to hand brake switch, the video display of the TFT monitor will be controlled by driving status, system setup and input video sources.
2. When the car is moving ahead, if the video disc is played, the screen appears "WARNING: Engage Parking Brake to View Video". The above warning screen will prevent the driver watching images. The passengers at the rear seats can watch normally.

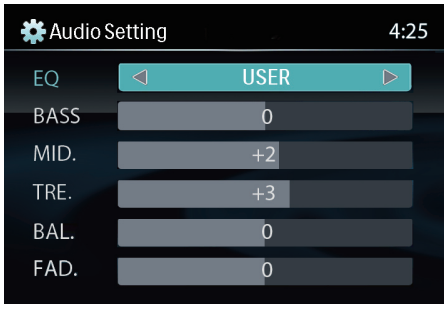
When Reverse Driving

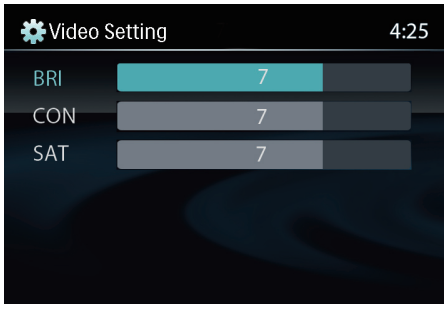
If the rear view video camera is connected, the unit automatically switches to CAMERA source during reverse driving. The unit returns to the original work mode after the reverse driving is done.

Rotary Knob Menu

1. Rotate the knob to adjust volume level.

2. Short press to access the Audio&VIDEO Setting menu.





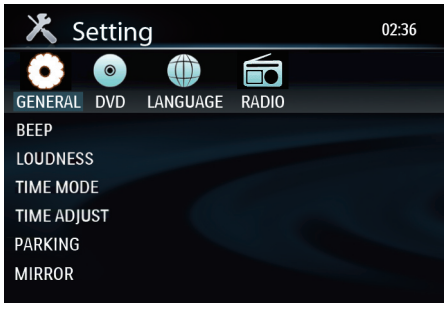
Each press the knob to change the AUDIO mode: EQ/Bass/Middle/Treble/Balance/Fader, and rotate the knob to adjust level.
Each press the knob to change the VIDEO mode: Bright/Contrast/Saturation, and rotate the knob to adjust level.

EQ: USER/FLAT/POP/ROCK/CLASSIC/ JAZZ

The Equalizer function applies preset sound effects to the unit's audio output signal. Turn the rotary encoder to select from the following equalizer options: USER, FLAT, POPULAR, ROCK, CLASSIC, JAZZ. With the equalizer function activated, if bass or treble is adjusted, the EQ Mode will revert to "USER". When the equalizer function is activated, the most recently selected bass/treble levels cannot be adjusted. When the equalizer function is not active, the unit will return to the most recently selected bass and treble levels.

3. Press the knob more than 2 seconds to enter Setting mode, then Use ◄/►, ▲ / ▼ and OK key to select setting items.

General Setting



BEEP: ON/ OFF
The beep tone feature allows the selection of an audible beep tone to be heard each time the menu is accessed.

LOUDNESS: ON/OFF
When listening to music at low volumes, this feature will selectively boost certain bass and treble frequencies.

TIME MODE
12 HOURS MODE: the clock displays in the type of 12 hours such as 11:18 AM.
24 HOURS MODE: the clock displays in the type of 24 hours such as 20:18.

TIME ADJUST
Press ◄ / ► or ▲ / ▼ key to set hour and minute. Each time you press ◄ / ► to select one segment of the clock display:
Hour-Minute
As you select segments of the clock display the segment selected will be highlighted. Then you can press ▲ / ▼ to put a clock right.

PARKING: ON/OFF
When it is in Parking "On" mode, if you play the video disc, the screen will show "WARNING: Engage Parking Brake to View Video".

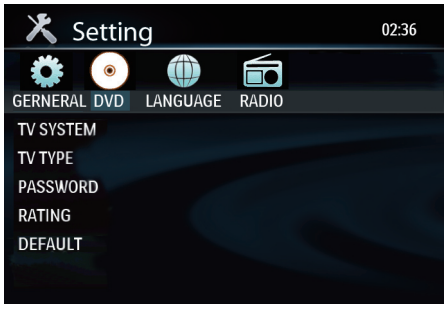
MIRROR: ON/OFF
This option allows for selection of a mirror

image view when a rear view backup camera (sold separately) is connected to the CAMERA IN input on the back of the radio. Turn the rotary encoder to select “On” or “Off”.

SUBWOOFER: ON/80HZ/120HZ/160HZ
After connecting a subwoofer to the back of the unit, press ▲ / ▼ key to select a crossover frequency: OFF, 80, 120 or 160Hz.

SUB VOLUME: 0-33
Press ▲ / ▼ key to select the desired subwoofer out volume level.

DVD Setting



TV SYSTEM: NTSC/PAL/AUTO
Select the TV system in the setting menu.

TV TYPE: 4:3PS/4:3LB/16:9
Select TV type to watch wide screen movies.
4:3 Pan Scan: For 4:3 TV, left and right edges will be cut.
4:3 Letter Box: For 4:3 TV, black bars will appear on top and bottom.
16:9: For 16:9 wide screen TV.

PASSWORD
1. Press number button " 0000 " on the remote control, then press the **ENTER** button to confirm.
2. Press the desired 4-digit password, and then press **ENTER** button to confirm.
3. Record the password and keep it in a safe place for future reference.

If you forget the password, please enter 0000 to reset a new password.
The password : 0000

RATING: 1 KID SAFE/2 G/3 PG/4 PG13/5 PG-R/6 R/7 NC-17/8 ADULT
The rating of the disc is from 1 to 8:
(1) with the most limits when playing.
(8) with the least limits when playing.
Original setting: 8

Note:

The rating can be selected only under the password unlocked status, and the limits can be worked only under the password locked status.

DEFAULT: RESTORE
If this item is selected, the unit will return to original setting.

BRIGHTNESS
Set the brightness of the video output with ▲/▼ from 00 to 12.

CONTRAST
Set the contrast of the video output with ▲/▼ from 00 to 12.

HUE
Set the hue of the video output with ▲/▼ from 00 to 12.

SATURATION
Set the saturation of the video output with ▲/▼ from 00 to 12.

Rotary Knob Menu

Language Setting

OSD LANGUAGE:
English
Spanish
Portuguese
Select one language that you are familiar with to display system menu.

AUDIO LANG:
English
German
Spanish
French
Portuguese
Select one dialogue language that you are familiar with when playing back DVD discs.

Note:

If the DVD disc has the audio file in the selected language, the dialogues you listened to will be in the selected language.
If the DVD disc does not contain the audio file in the selected language, the dialogues you listened to will be in the default language.
You can change the language by pressing [AUDIO] key of the remote controller.

SUBTITLE LANG:
English
German
Spanish
French
Portuguese
Off
Select one language that you are familiar with to display DVD subtitles.

If the DVD disc has the subtitle file in the selected language, the subtitle will be displayed in the selected language.
If the DVD disc does not contain the subtitle file in the selected language, the subtitle will be displayed in the default language.

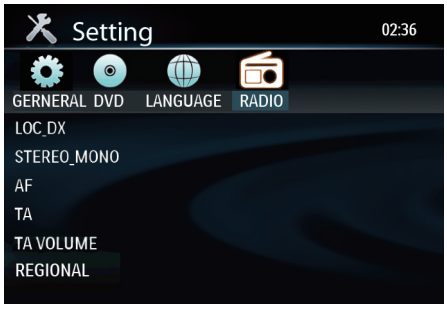
MENU LANG:
English
German
Spanish
French
Portuguese
Select one language that you are familiar with to display DVD menu.

Note:

If the DVD disc has the selected language, the DVD MENU/TITLE will be displayed in the selected language.
If the DVD disc does not contain the selected language, the DVD MENU/TITLE will be displayed in the default language.

Rotary Knob Menu

Radio Setting



LOC_DX: LOC/DX
Choose radio distant or local.
DX: Stations with strong and weak signals can be broadcast.
LOCAL: Only station with strong signal can be broadcast.

STEREO_MONO: STEREO/MONO
Choose FM mono/stereo.

AF: ON/OFF
Choose AF (Alternative Frequency) on or off.
AF ON: AF function is activated.
AF OFF: AF function is disabled.
Remark: AF indicator on LCD will flash until RDS information is received. If RDS service is not available in your area, turn off the AF mode.

TA: ON/OFF
Choose TA (Traffic Announcements Identification) on or off.
When TA mode is turned on, the TA indicator will blink.
When traffic announcement is received, the TA indicator will display. The unit will temporarily switch to the tuner mode (regardless of the current mode) and begin broadcasting the announcement at TA volume level. After the traffic announcement is over, it will return to the previous mode and volume level. When TA is turned on, SEEK, SCAN, AMS function can only be received or saved when traffic program identification (TP) code is received.

TA VOLUME: 08-33
Choose TA-VOL level.

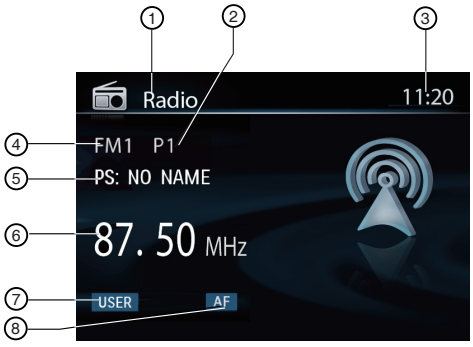
REGIONAL: ON/OFF
Choose AF function to implement or ignore the regional code (of the PI) and only stations in the current region can be tuned automatically.
REG ON: AF function will implement the regional code (of the PI) and only stations in the current region can be tuned automatically.
REG OFF: AF function will ignore the regional code (of the PI) and stations in the other regions can also be tuned automatically.

CT: ON/OFF
Some stations broadcast the time and date within the encoded RDS signal. The clock time is automatically adjusted when “CT” is set to “ON”.

Radio Mode

Accessing Radio Mode

Press the **SRC** button on the front panel or remote control to switch to the Radio source.



1. Source Indicator
2. Current Preset Channels
3. Time/Clock
4. AM/FM Band
5. RDS Information
6. Radio Station Frequency
7. EQ Indicator
8. AF Indicator

Selecting a Band

Press **BAND** once or more to select FM1-FM2 - FM3 - MW1 - MW2.
Display shows wave band, frequency, and preset station number if already stored.

Selecting a Station

Press the ▶▶I or I◀◀ tuning button to tune to another station.

Tuning

- AUTO SEEK
Press the ▶▶I or I◀◀ buttons to seek the next/previous station automatically.
- MANUAL SEEK
Press and hold the ▶▶I or I◀◀ buttons to enter manual tuning mode. Press the buttons again to move the radio frequency number up or down one step.

Note:

During manual seeking, if the pause between two operating steps is longer than 5 seconds, press the ▶▶I or I◀◀ buttons, the unit will enter auto seeking.

Preset Mode

Six numbered preset buttons store and recall stations for each band. The stored stations (P1-P6) for the current band can be viewed on the screen.

Storing Stations

- Auto storing
1. Select a band (if needed).
2. Press **AMS** briefly to scan the preset station P1 - P6 for 5 seconds each.
3. Hold **AMS** more than 2 seconds, the 6 strongest available stations will be automatically saved in the preset button (numbers 1-6).

- Manual Storing
1. Select a band (if needed), then select a station.
2. Press and hold a preset button (numbers 1-6) on the front panel or remote control.
3. The preset number and station is displayed and highlighted.

Recalling a Station

1. Select a band (if needed).
2. Press a front panel or remote control preset button (numbers 1-6) to select the corresponding stored station.

RDS (Radio Data System)

RDS service availability varies with areas. Please understand if RDS service is not available in you area, the following service is not available.

RDS Basics

AF (Alternative Frequency): When the radio signal strength is poor, enabling the AF function will allow the unit to automatically search another station with the same PI (program identification) as the current station but with stronger signal strength.
PS (Program Service name): The name of station will be display instead of frequency.

Traffic Announcements

Some RDS FM stations periodically provide traffic information.
TP (Traffic Program Identification)
Broadcasting of traffic information
TA (Traffic Announcements Identification)
Radio announcements on traffic conditions

EON (Enhanced Other Networks)

When EON data is received, the EON indicator lights and the TA and AF functions are enhanced.
TA: Traffic information can be received from the current station or stations in other network.
AF: The frequency list of preset RDS stations is updated by EON data. EON enables the radio to make fuller use of RDS information. It constantly updates the AF list of preset stations, including the one that currently tuned into. If you preset a station around the area at your home, you will later be able to receive the same station at an alternative frequency, or any other station serving the same program, EON also keeps track of locally available TP stations for quick reception.

PTY Reception (Program Type)

RDS FM stations provide a program type identification signal.
Example: news, rock, info, sport, etc.

PTY Mode:

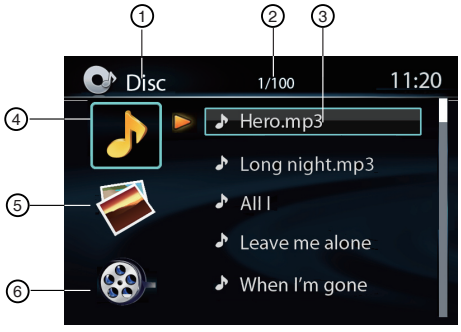
Press **BAND** more than 2 seconds to turn on the Program Type reception, the previous PTY type is shown, then use ▲ / ▼ to select the desired program type. The selected PTY type is shown and searching starts if no other function is selected for 2 seconds. If there is no corresponding program type, NO PTY is shown and the unit will return to normal mode.

MUSIC TYPE	SPEECH TYPE
POP M	NEWS
	AFFAIRS
ROCK M	INFO
EASY M	SPORT
	EDUCATE
LIGHT M	DRAMA
CLASSICS	CULTLURE
	SCIENCE
OTHER M	VARIED
JAZZ M	WEATHER
	FINANCE
COUNTRY	CHILDREN
NATIONAL M	SOCIAL
	RELIGION
OLDIES M	PHONE IN
FOLK M	TRAVEL
	LEISURE
	DOCUMENT
	TEST
	ALARM

Disc Mode

Accessing Disc Mode

If a disc is already in the disc slot but is not playing, press the **SRC** button on the front panel or on the remote control to switch to the DISC source. To play files from an SD or USB that is already inserted, choose the CARD or USB source. The disc playback screen is indicated below:



1. Source Indicator
2. Current Track/Total Track
3. Name of the Song Display
4. Audio folder
5. Picture folder
6. Video folder

Insert a Disc

Press ⏏ to flip down the panel. Insert the disc into the slot, and the unit will change to disc mode automatically.

Note:

- Please confirm whether there is a disc in the unit before you insert another one.
- The unit will exit current playing source and enter DVD mode when one disc is inserted.

Eject the Disc

Press ⏏ to flip down the panel. Press ⏏ to eject the disc.

Note:

- After ejecting the disc, the unit reverts to radio mode.
- You can eject a disc with the unit powered off. The unit remains off after the disc is ejected.

Disc Playback

1. When disc inserted, display shows LOAD. For MP3 or disc with mixed files, reading time may exceed 1 minute.
2. ERROR will be displayed if error found in disc operation.
3. For VCD/CD, VCD or CD icon will appear on the display.
4. While MP3/WMA files playback, MP3/WMA icon will appear on the display.
5. For DVD, DVD icon will appear on the display and TITLE appears. Press **ENTER** or ⏯ to play.

File Type Supported

Audio file: MP3(*.mp3), WMA(*.wma)
Video file:
MP4 (*.avi)
MPEG 2 (*.vob)
MPEG 1 (*.dat)
Picture file: JPEG (*.jpg)
MP3 file:
ISO 9660 or ISO 9660 + Joliet format - Max. 30 characters.
Max. nested directory is 8 levels.
The max. album number is 99.
The max. length of each track is 99 minutes 59 seconds.
Supported sampling frequency for MP3 disc: 8KHz to 48KHz (44.1KHz preferably).
Supported bit-rates of MP3 disc are: 32 - 320 kbps (128 kbps preferably).

Disc Mode

Disc and File NOT Supported

*.AAC, *.DLF, *.M3U, *.PLS, MP3 PRO files and files with DRM.
Open session discs.

Audio/Picture/Video File Playback

When AUDIO/PICTURE/VIDEO file is played, Category/Folder/File list will be displayed on the screen, and file/folder name being played will be displayed on top. Current selected item will be highlighted.
The list lets you see the list of track titles or folder names on a disc. If you select a folder on the list, you can view its contents.

For Audio Files

1. Press **ESC** to return to playlist menu.
2. Use ▲ / ▼ to select AUDIO folders.
3. Press **OK**, ▶II on the front panel or **ENTER** on the remote control to display all available audio file folders.
4. Use ◄ / ► to enter file list and use ▲ / ▼ to select desired file, press **OK**, ▶II on the front panel or **ENTER** on the remote control to start play.
5. During the file playing, press ■ will enter power on logo, then press ▶II to return.

For Picture files

1. Press **ESC** to return to playlist menu.
2. Use ▲ / ▼ to select PICTURE folders.
3. Press **OK**, ▶II on the front panel or **ENTER** on the remote control to display all available picture file folders.
4. Use ◄ / ► to enter file list and use ▲ / ▼ to select desired file, press **OK**, ▶II on the front panel or **ENTER** on the remote control to slide show the pictures, and press **PROG** to select picture showing style.
5. During the file playing, press ■ to stop and return to the sub-root.

For Video files

1. Press **ESC** to return to playlist menu.
2. Use ▲ / ▼ to select VIDEO folders.
3. Press **OK**, ▶II on the front panel or **ENTER** on the remote control to display all available video file folders.
4. Use ◄ / ► to enter file list and use ▲ / ▼ to select desired file, press **OK**, ▶II on the front panel or **ENTER** on the remote control to start play.
5. During the file playing, press ■ to stop and return to the sub-root.

Note:

1. If the selected folder does not contain any playable track, the track list is not displayed.
2. During the folder selecting, press **ESC** to the upper folder (parent folder). If the uppermost folder is listed, **ESC** cannot be used.

MP3/WMA Notes

MP3 and WMA (Windows Media Audio) music files are digital audio files that are compressed to allow more files to be stored. This unit can play MP3/WMA and video directly from files contained on a CD-R/RW, DVD-ROM, DVD+RW, DVD-RW, DVD+R, DVD-R and DVD-VIDEO, or an SD card or USB Device. Many types of software are available for converting audio files into MP3/WMA formats. Nero or Roxio Easy CD Creator are recommended. This unit can play MP3 (MPEG1, 2, 2.5 Audio Layer 3). However, the MP3 recording media and accepted formats are limited.

Entering ID3 Tag

This unit supports ID3 tag version 2.0.
For character codes, refer to the table to the below.

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0				0	@	P	`	p				°	À	Đ	à	đ
1			!	1	A	Q	a	q			¡	±	Á	Ñ	á	ñ
2			"	2	B	R	b	r			¢	²	Â	Ò	â	ò
3			#	3	C	S	c	s			£	³	Ã	Ó	ã	ó
4			$	4	D	T	d	t			¤	´	Ä	Ô	ä	ô
5			%	5	E	U	e	u			¥	µ	Å	Õ	å	õ
6			&	6	F	V	f	v			¦	¶	Æ	Ö	æ	ö
7			'	7	G	W	g	w			§	·	Ç	×	ç	÷
8			(	8	H	X	h	x			♪	†	È	Ø	è	ø
9			)	9	I	Y	i	y			©	¹	É	Ù	é	ù
A			*	:	J	Z	j	z			ª	º	Ê	Ú	ê	ú
B			+	;	K	[	k	{			«	»	Ë	Û	ë	û
C			,	<	L	\	l	|			¬	¼	Ì	Ü	ì	ü
D			-	=	M	]	m	}			®	½	Í	Ý	í	ý
E			.	>	N	^	n	~			®	¾	Î	Þ	î	þ
F			/	?	O	_	o	■			¯	¿	Ï	ß	ï	ÿ

Entering File and Folder Names

Names using the code list characters are

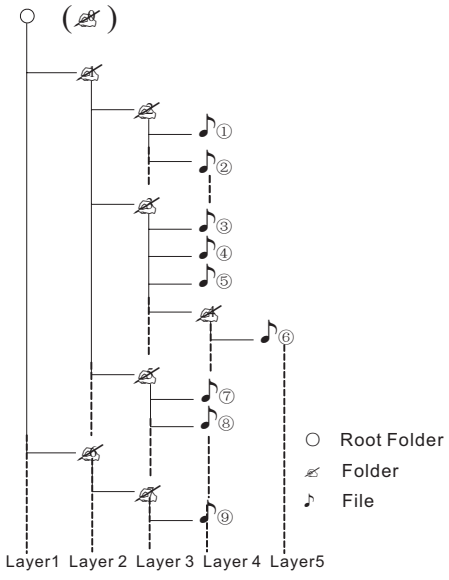
the only file names and folder names that can be entered and displayed. Using any other character will cause the file and folder names to be displayed incorrectly. The unit recognizes and plays only files with the MP3/ WMA extension.

Note:

A file name entered with characters not on the code list may not play correctly.

MP3 Playing Order

When selected for play, files and folders (Folder Search, File Search or Folder Select) are accessed in the order in which they were written to the media. As a result, the order in which they are expected to be played may not match the order in which they are actually played. You may be able to set the order in which MP3/WMA files are to be played by assigning file names beginning with play sequence numbers such as "01" to "99". For example, a medium with the following folder/ file hierarchy is subject to Folder Search, File Search or Folder Select as shown below.



The player will only recognize three folder levels and does not display folders containing only other folders. In the example above, the unit will display folders 3, 4, 6, and 8, but not 2 and 7 since they do not contain since they do not contain any tracks directly. Folder 5 is not recognized at all since it is at the fourth level.

Electronic Shock Protection

- 10 seconds for CD-DA (CDA)
- >45 seconds for MP3 recorded at 44.1kHz, 128kbps
- >90 seconds for WMA recorded at 44.1kHz, 128kbps

Stop Playback Temporarily

- During playback, press ⏯ to pause playback.
- The sound will be muted.
- Display "PAUSE" in the TV screen.
  Press ⏯ again to continue playback.

To resume normal play, repeat the operation.

Stop Playback Entirely

During DVD, VCD, CD, MP3 playback:

1. Press ■ key once stopping the playback and the relevant location on the disc is saved, press ⏯ to resume the playback from the saved disc location.
2. Press ■ twice to cease the playback. Press ⏯ to start the playback from the very beginning the Title page of the DVD or the first track of VCD / CD.

Select Desired Track

- Press ⏮ or ⏭ to skip to the next track.
- Use 1-9 and 0, 10+ buttons on the remote control to select desired track number.

Fast Forward/Backward During Playback

Press ⏮ or ⏭ for more than 2 seconds once or more to select X2, X4, X8, X20, to fast backward or forward track during playback.

- During the fast forward or backward operation, press ⏯ briefly to playback again.
- During the fast forward or backward operation, the volume will be muted.

Repeat

During playback, press **REPEAT** once or

more.
- RPT icon will appear on the display.
- For VCD/CD: Display appears RPT ONE → RPT ALL → RPT OFF
- For DVD: Display appears RPT CHAPTER → RPT TITLE → RPT OFF
- For File disc: Display appears RPT ONE → RPT DIR → RPT ALL → RPT OFF

Note:

If you do not select RPT on, when the entire disc or TITLE playback has finished, the system will stop. If no other control, after 5 minutes the unit will turn into standby mode.

Repeat A → B

Select desired passage to repeat playback.
- Press **A** → **B** once to select starting point. Display shows REPEAT A.
- Press **A** → **B** again to select ending point. Display shows REPEAT A → B, and selected passage start to replay.
- Press **A** → **B** once again to exit. Display shows A → B CANCEL.

PBC - Playback Control (for VCD only)

1. If you insert a VCD with PBC, playback starts from the beginning of the 1st track automatically.
2. Press **PBC** to show menu, use ⏮ / ⏭ or digit button to select desired track. Press ■ to stop. Press **PBC** again to exit menu.

GOTO

Goto desired track/chapter or time point directly.
Press **GOTO** button on the remote control, track or DVD Title/Chapter and time display on top of the screen. Current item is highlighted. Use ◄ / ► to select desired item. Use digit button to select number. Press **ENTER** to confirm.

Program

- Press **PROG** to enter program list. Use ▲ / ▼ or ◄ / ► cursor and digit button to enter number.
  For DVD and File disc, select title and chapter number.
  For VCD and CD, select track number.
- Press ⏯ to play, or move the cursor to select "PLAY" and press **ENTER** to play.
- If you want to delete the list, move the cursor to "CLEAR", press **ENTER** to delete all the list set before.
- Press **PROG** again to exit program play.

DVD Audio Select

Press **AUDIO** or **R/L** to select audio language to listen if the DVD has multiple audio languages.

VCD Audio Select

Press **R/L** to select audio channel to listen.

L → R → Stereo

DVD Subtitle Select

Press **SUB.T** to select the subtitle language to show if the DVD has multiple language subtitles.

DVD Title Select

Press **TITLE** to display title or chapter list, use cursor or digit number to select, press **ENTER** to play.

DVD Angle Select

Press **ANGLE** to select different angle to view if the DVD has multiple-angle views.

Picture Mirror

When you view a picture, press ▲ repeatly to mirror the picture vertically, and press ▼ repeatly to mirror the picture horizontally.

ZOOM

Press **ZOOM** button, the picture will be zoomed accordingly.

X2 → X3 → X4 → X1/2 → X1/3 → X1/4 → OFF

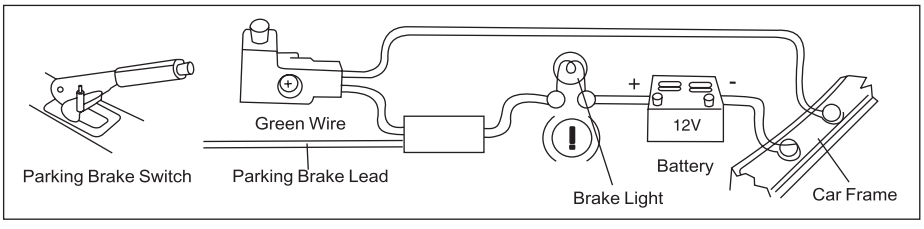
Device Connections

Notes of connection

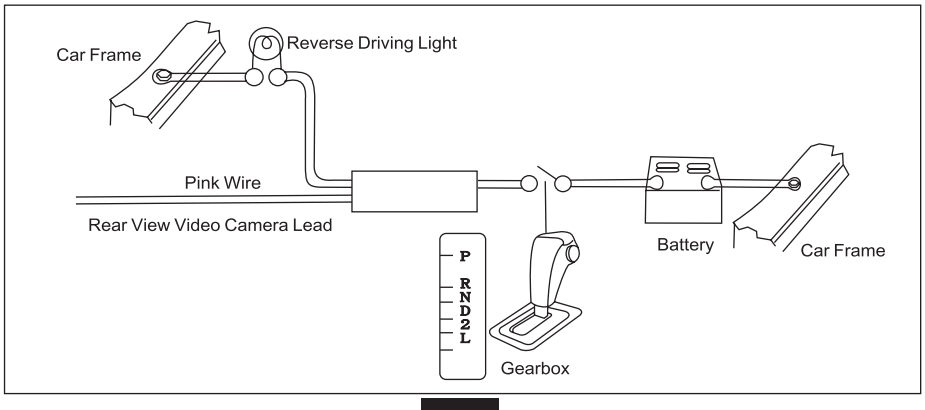
- To avoid short circuit in the electrical system, ensure that the negative battery cable is disconnected before installation.
- To prevent short circuit in the wiring and damaging to this unit, secure all wirings with cable clamp or adhesive tape. Route the wirings in a secured, out of heating place without touching any moving parts such as gear shift, handbrake, and seat rails to prevent the wiring insulation being melted / wore off.
- Never pass the yellow power cord through the installation hole into the engine compartment and connect to the car battery. Otherwise, a high possibility of serious short circuit to the electrical system may be occurred.
- Replacing a new fuse with 15A rating when the old one is broken, using no fuse or fuse with improper rating may cause damage to this unit or even fires. If a proper fuse is installed and electrical problems still occur, please contact with any professional car shops for inquiry.
- DO NOT connect other equipments with the car battery to avoid battery overheating.
- Please make sure all the wiring connections & the cables of the Speakers are well-insulated. Otherwise, this unit may be damaged by short circuit.
- If there is no ACC available, please connect ACC lead to the power supply with a switch.

- If an external power amplifier is connected, please don't connect P.CONT lead to the power lead of the external power amplifier, otherwise, electric spark or other damage may be resulted.
- Never ground the speaker output to prevent the damage to the built-in power amplifier.
- The minimum rating of the speakers connected to this unit is 50W with 4 to 8 impedance.

Parking Brake Cable Connections

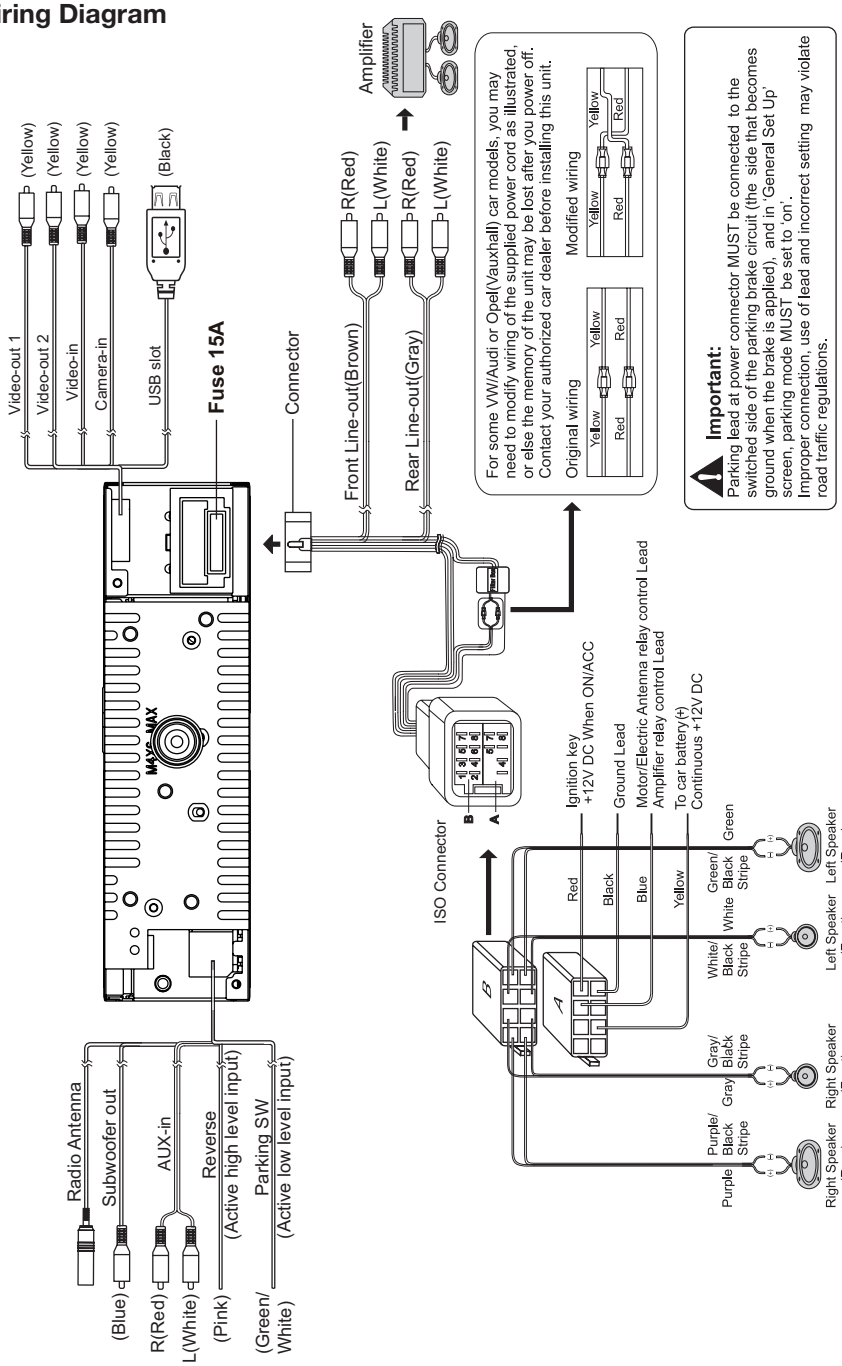


Reverse Driving Cable Connections



Device Connections

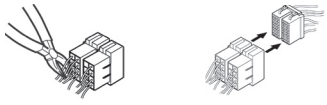
Wiring Diagram



Device Connections

Using the ISO Connector

1. If your car is equipped with the ISO connector, then connect the ISO connectors as illustrated.
2. For connections without the ISO connectors, check the wiring in the vehicle carefully before connecting, incorrect connection may cause serious damage to this unit.
   Cut the connector, connect the colored leads of the power cord to the car battery, as shown in the colour code table below for speaker and power cable connections.



Location	Function	
	Connector A	Connector B
1		Rear Right (+) - Purple
2		Rear Right (-) - Purple / Black Stripe
3		Front Right (+) - Gray
4	Battery 12V(+)/Yellow	Front Right (-) - Gray / Black Stripe
5	ANT/Amp control /Blue	Front Left(+) - White
6		Front Left(-) - White / Black Stripe
7	ACC+/Red	Rear Left (+) - Green
8	Ground/Black	Rear Left (-) - Green/ Black Stripe

Installation Guide

Preparation

1. Disconnect battery

Before you begin, always disconnect the battery negative terminal.

Note:

If the unit is to be installed in a car equipped with an on-board drive or navigation computer, do not disconnect the battery cable. If the cable is disconnected, the computer memory may be lost. Under these conditions, use extra caution during installation to avoid causing a short circuit.

2. Remove transport screws

IMPORTANT:

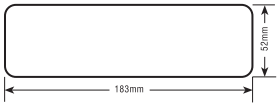
Remove these two transport screws before installation. Otherwise, the DVD player will not work.

3. Remove unit from sleeve

Lift latches on both sides of sleeve to remove half-sleeve from the unit.

Mounting Sleeve Installation

1. Slide the mounting sleeve off the chassis. If it is locked into position, use the removal tools (supplied) to disengage it.
2. Check the dashboard opening size by sliding the mounting sleeve into it.



If the opening is too small, carefully cut or file as necessary until the sleeve easily slides into the opening. Do not force the sleeve into the opening or cause it to bend or bow. Check for sufficient space behind the dashboard for the unit chassis.
This unit can be installed in any dashboard with a suitable 183 mm (W) x 52 mm (H) opening as shown above. The dashboard should be 4.75 mm - 5.56 mm thick in order to be able to support the unit.

3. Locate the series of bend tabs along the top, bottom, and sides of the mounting

sleeve. With the sleeve fully inserted into the dashboard opening, bend as many of the tabs outward as necessary to firmly secure the sleeve to the dashboard.

CAUTION:

For proper operation of the DVD player, the chassis must be mounted within 20° of horizontal. Make sure the unit is mounted within this limitation.

4. Place the unit in front of the dashboard opening so the wiring can be brought through the mounting sleeve. Follow the wiring diagram carefully and make certain all connections are secure and insulated with wire nuts or electrical tape. After completing the wiring connections, turn the unit on to confirm operation (vehicle ignition must be on). If the unit does not operate, re-check all wiring until the problem is corrected.
5. Make sure the radio is right-side up, then carefully slide the radio into the mounting sleeve until it is fully seated and the spring clips lock it into place.
6. Secure the rear of the unit to the car body using the mounting bolt and rubber cushion.
7. Test the unit using the "Operation" instructions that follow.

Kit Installation

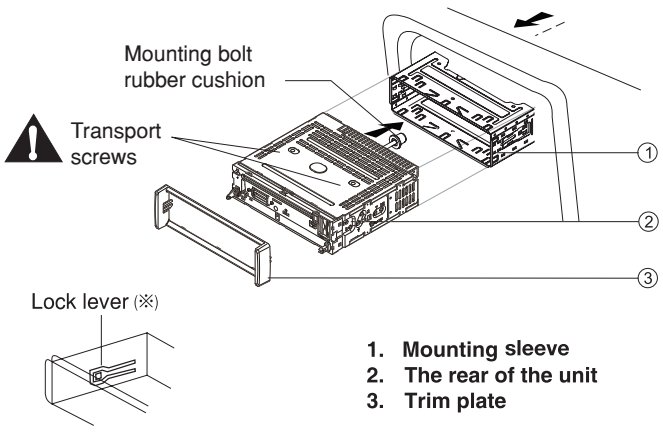
If your vehicle requires the use of an installation kit to mount this unit, follow the instructions included with the installation kit to attach the unit to the mounting plate supplied with the kit.

1. Wire and test the unit as outlined in the Mounting Sleeve Installation instructions.
2. Install the radio/mounting plate assembly to the sub-dashboard according to the instructions in the installation kit.
3. Replace the dashboard trim panel.

ISO Installation

This unit has threaded holes in the chassis side panels which may be used with the original factory mounting brackets of some vehicles to mount the radio to the dashboard. Please consult with your local car stereo shop for assistance on this type of installation.

1. Remove the existing factory radio from the dashboard or center console mounting. Save all hardware and brackets as they will be used to mount the new radio.
2. Carefully unsnap the plastic frame from the front of the new unit chassis. Remove and discard the frame.
3. Remove the factory mounting brackets and hardware from the existing unit and attach them to the new unit. Do not exceed M5 x 9mm maximum screw size. Longer screws may damage components inside the chassis.

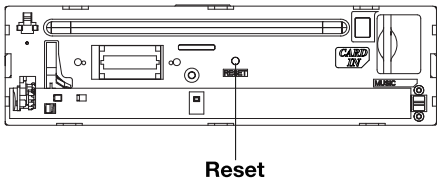


1. **Mounting sleeve**
2. **The rear of the unit**
3. **Trim plate**

Installation Guide

4. Wire the new unit as outlined in the Mounting Sleeve Installation instructions.
5. Mount the new unit assembly to the dashboard or center console using the reverse procedure of step 1.

Reset



The **RESET** button is located behind the front panel and can only be accessed with the front panel opened. Resetting the unit will erase the time and preset memories. It should only be activated upon initial installation after all wiring is complete, or if there is a malfunction of any of the switches on the unit. In these circumstances, pressing the **RESET** button will clear the system and return the unit to default operation.

Fuse

When replacing a fuse, make sure the new fuse is the correct type and amperage. Using an incorrect fuse could damage the radio.

Reconnect Battery

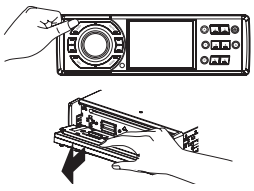
When wiring is complete, reconnect the battery negative terminal.

Anti-Theft System

This unit is designed with a flip-down detachable panel.
The panel can be detached and taken with you, helping to deter theft. To detach the front panel, perform the following steps:

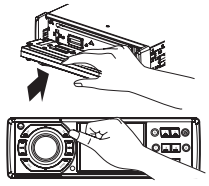
Remove the Panel

1. Press ⏻ to switch off the power of the unit.
2. Press ⏏ to flip down the panel.
3. Grasp the right side to release the front panel and then pull it at an angle to remove the right side from the chassis.
4. Store the front panel in the supplied carrying case to protect it from dirt and damage, and take it with you to prevent theft.



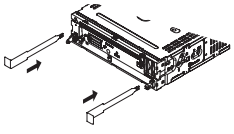
Re-attach the Font Panel

1. With the panel laying flat (in the “open” position), insert the left side of the panel in place until correctly engaged.
2. Gently press the right side of the panel until the mechanism locks it into place.
3. Lift upward to close the panel.



Remove the Unit

1. Remove the panel and the trim plate.
2. Remove the trim ring by firmly grasping one side and pulling.
3. Insert the removal keys straight back until they lock, then pull the radio out. If the removal keys are inserted at an angle, they will not lock properly and will not release the unit.



Troubleshooting

If you suspect something is wrong, immediately switch power off. Immediately stop using it and call the store where you purchased it. Never try to repair the unit yourself because it is dangerous to do so.

Problem	Possible cause	Solution
General		
The unit will not switch on.	Car ignition is not on. Cable is not properly connected. Fuse is burnt.	Turn your car key in the ignition. Check cable connection. Replace fuse with a new fuse of the same capacity.
No sound	Volume is set at minimum or the mute function is on.	Check the volume or switch the mute function off.
The unit or screen does not function normally.	The unit system is unstable.	Press the RESET button.
DVD mode		
The appliance will not play discs.	The disc is inserted incorrectly. The disc is dirty or damaged.	Disc must be inserted with the label side facing up. Clean the disc and check for damage. Try another disc.
Sound skips due to vibration.	Mounting angle is over 30˚. Mounting is unstable.	Adjust mounting angle to less than 30˚. Mount the unit securely with the supplied parts.
TUNER mode		
Unable to receive stations.	The antenna is not connected properly.	Connect the antenna properly.
Poor quality reception of radio station.	The antenna is not fully extended or it is broken.	Fully extend the antenna and if broken, replace it with a new one.
Preset stations are lost.	The battery cable is not properly connected.	Connect the permanent live on the unit to the permanent live on the vehicle.
USB/SD/MMC mode		
Unable to insert USB device or SD/MMC card.	The memory card or USB device has been inserted the wrong way round.	Insert it the other way around.
The USB device or SD/MMC card cannot be read.	NTFS format is not supported.	Check that the USB/SD/MMC file system is in FAT or FAT32 format. Due to different formats, some models of USB storage devices or MP3 players may not be read.
Remote control		
The remote control is not working or does not work properly	The batteries are low or empty.	Change the batteries.

Care and Maintenance

DVD Player

The following guidelines will help you extend the life of your DVD player:

1. When cleaning the vehicle interior, do not get water or cleaning fluids on the unit.
2. The DVD player will not operate properly in extreme hot/cold or under damp conditions. In case of such conditions, wait until the vehicle interior reaches a normal temperature or any condensation on the disc player lens has evaporated before using the player.
3. Always remove the disc when the player is not in use.
4. The unit is designed with a vibration dampening disc mechanism to minimize interruption of disc play due to normal vibration in a moving vehicle. However, occasional sound skips may occur when driving on very rough roads. This will not scratch or damage the disc, and normal play will resume when the rough conditions cease.

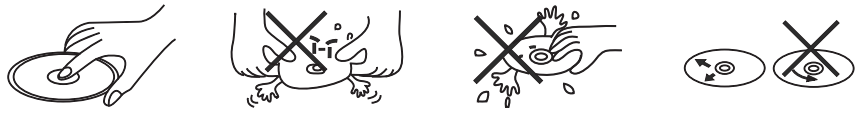
CD-R and CD-RW Capability

Depending on media type and method of "recording/burning", some CD-R/RWs may be incompatible with this unit. After "recording/burning", the session must be closed. Please refer to your software's recommended procedures for closing a disc/session. Review your recording software to familiarize yourself with the correct "recording/burning" procedures. We recommend using the latest versions of ROXIOTM or NEROTM burning software.

In addition, this unit will only recognize the CDDA (Compact Disc Digital Audio), .MP3 and .WMA formats "recorded / burned" onto a CD-R/RW. This unit does not support .WAV, .OGG or other formats.

Disc Care and Handling

Dirt, dust, scratches and warpage can cause skips in the playback and deterioration of sound quality. Please follow these guidelines to take care of your compact discs.



1. Do not touch the disc surface.
2. Never use chemicals such as record sprays or household cleaners to clean discs, as they can irreparably damage the disc's surface.
3. Discs should be kept in their storage cases when not in use.
4. Do not expose discs to direct sunlight, high temperatures or high humidity for long periods.
5. Carefully wipe fingerprints, dust and dirt from the disc's playing surface with a soft cloth. Wipe in a straight motion from the inside to the outside of the disc.
6. Do not stick paper, tape or disc labels on disc surfaces, as internal damage may occur.

Please Recycle Your Spent Batteries

Batteries should not be disposed of in unsorted municipal waste, but separately collected to facilitate the correct treatment and recycling of the substances they contain. The recycling of batteries ensures the recovery of these valuable materials and prevents any potentially harmful effects upon both the environment and human health.
Please contribute to battery recycling by segregating all spent batteries and actively participating in their collection and recycling. Various battery collection schemes will be in operation in different areas of the country. However, battery collection bins will be available at retail stores that sell batteries as well as at schools, libraries and other public buildings.

Specifications

General

Power supply:	12VDC (11V-16V), Test voltage 14.4V, negative ground
Maximum power output:	45W x 4 channels
Continuous power output:	20W x 4 channels (4Ω 10% T.H.D.)
Suitable speaker impedance:	4-8ohm
Pre-Amp output voltage:	2.0V (CD play mode: 1KHz, 0dB, 10KΩ load)
Fuse:	15A
Dimensions (WxHxD):	178 x 50 x 166mm
Weight:	1.7kg
Aux-in level:	⩾500mV
Sub-out:	2.0V (CD play mode: 61Hz, 0dB, 10KΩ load)

3 Inch (16:9) TFT LCD

Display resolution (dot)	960(W)×240(H)
Active area (mm)	65.52×36.84
Screen size (inch)	2.96 (Diagonal)
Dot pitch (mm)	0.06825 x 0.1535
Contrast ratio	300
Brightness	350nits

FM Stereo Radio

Frequency range:	87.5-108.0MHz (Europe) 87.5-107.9MHz (America)
Usable sensitivity:	8dBμ
Frequency response:	30Hz-15KHz
Stereo separation:	30dB(1KHz)
Image response ratio:	50dB
IF response ratio:	70dB
Signal/noise ratio:	>55dB

AM(MW) Radio

Frequency range	522-1620KHz (Europe) 530-1710KHz (America)
Usable sensitivity (S/N=20dB)	30dB

Disc Player

System:	Disc digital audio system
Frequency response:	20Hz - 20KHz
Signal/noise ratio:	>80dB
Total harmonic distortion:	Less than 0.20% (1KHz)
Channel separation:	>60dB
Video signal format system:	NTSC/PAL/AUTO
Video output:	1 ± 0.2V

Components

Mounting sleeve	1
Machine screws M5x6 mm	4
Mounting bolt (50 mm)	1
Wire connector	1
Removable face plate case	1
Trim plate	1
Removal key	2
Operating Instructions	1
Rubber cushion	1
Remote control	1

Note:

Specifications and the design are subject to change without notice due to improvements.

P.N.: 127075002108